L Number	Hits	Search Text	DB	Time stamp
2	3	window$3 with (data and segment) and seismic and sweep$3 and (chirp or variphase or vibrator$3)	USPAT; US-PGPUB	2003/04/18 16:19
1	8	window$3 with (data and segment) and seismic and (sweep$3 or chirp or variphase or vibrator$3)	USPAT; US-PGPUB	2003/04/18 16:18
3	27	window$3 and (data and segment) and seismic and sweep$3 and (chirp or variphase or vibrator$3)	USPAT; US-PGPUB	2003/04/18 16:21
4	27	window$3 and (data and segment) and seismic and sweep$3 and (chirp or variphase or vibrator$3) and first and second	USPAT; US-PGPUB	2003/04/18 16:22
5	83	window$3 and (data and segment) and seismic and (sweep$3 or chirp or variphase or vibrator$3) and first and second	USPAT; US-PGPUB	2003/04/18 16:23
6	0	(window$3 and (data and segment) and seismic and (sweep$3 or chirp or variphase or vibrator$3) and first and second) and variphase and gather$3	USPAT; US-PGPUB	2003/04/18 16:34
7	0	(variphase with gather$3) and seismic and sweep$3 and window$3 and stack$3	USPAT; US-PGPUB	2003/04/18 16:35
8	0	variphase with gather$3	USPAT; US-PGPUB	2003/04/18 16:35
9	0	variphase and gather$3	USPAT; US-PGPUB	2003/04/18 16:36
10	0	(cascade$3 with sweep$3) and data and gather$3	USPAT; US-PGPUB	2003/04/18 16:37
12	11	(cascade$3 with sweep$3) and data and segment	USPAT; US-PGPUB	2003/04/18 16:37
14	2	(cascade$3 with sweep$3) and data and segment and seismic and window$3	USPAT; US-PGPUB	2003/04/18 16:38
13	4	(cascade$3 with sweep$3) and data and segment and seismic	USPAT; US-PGPUB	2003/04/18 16:41
11	28	(cascade$3 with sweep$3) and data	USPAT; US-PGPUB	2003/04/18 16:47
15	5	(cascade$3 with sweep$3) and data and seismic	USPAT; US-PGPUB	2003/04/18 16:49
17	16	(cascade$3 and sweep$3) and data and seismic and window$3	USPAT; US-PGPUB	2003/04/18 16:50
18	16	(cascade$3 and sweep$3) and data and seismic and window$3 and first and second	USPAT; US-PGPUB	2003/04/18 16:50
20	12	(cascade$3 and sweep$3) and data and seismic and window$3 and first and second and segment$3	USPAT; US-PGPUB	2003/04/18 16:56
21	2	(cascade$3 with sweep$3) and data and seismic and window$3 and first and second and segment$3	USPAT; US-PGPUB	2003/04/18 16:58
22	11	(cascade$3 and sweep$3) and data and seismic and window$3 and first and second and segment$3 and compar$3	USPAT; US-PGPUB	2003/04/18 16:59
23	11	(cascade$3 and sweep$3) and data and seismic and window$3 and first and second and segment$3 and compar$3 and segment$3	USPAT; US-PGPUB	2003/04/18 17:04
24	1	(cascade$3 with sweep$3) and data and seismic and window$3 and first and second and segment$3 and compar$3 and segment$3	USPAT; US-PGPUB	2003/04/18 17:07
16	40	(cascade$3 and sweep$3) and data and seismic	USPAT; US-PGPUB	2003/04/18 17:08

L Number	Hits	Search Text	DB	Time stamp
2	3	window$3 with (data and segment) and seismic and sweep$3 and (chirp or variphase or vibrator$3)	USPAT; US-PGPUB	2003/04/18 16:19
1	8	window$3 with (data and segment) and seismic and (sweep$3 or chirp or variphase or vibrator$3)	USPAT; US-PGPUB	2003/04/18 16:18
3	27	window$3 and (data and segment) and seismic and sweep$3 and (chirp or variphase or vibrator$3)	USPAT; US-PGPUB	2003/04/18 16:21
4	27	window$3 and (data and segment) and seismic and sweep$3 and (chirp or variphase or vibrator$3) and first and second	USPAT; US-PGPUB	2003/04/18 16:22
5	83	window$3 and (data and segment) and seismic and (sweep$3 or chirp or variphase or vibrator$3) and first and second	USPAT; US-PGPUB	2003/04/18 16:23
6	0	(window$3 and (data and segment) and seismic and (sweep$3 or chirp or variphase or vibrator$3) and first and second) and variphase and gather$3	USPAT; US-PGPUB	2003/04/18 16:34
7	0	(variphase with gather$3) and seismic and sweep$3 and window$3 and stack$3	USPAT; US-PGPUB	2003/04/18 16:35
8	0	variphase with gather$3	USPAT; US-PGPUB	2003/04/18 16:35
9	0	variphase and gather$3	USPAT; US-PGPUB	2003/04/18 16:36
10	0	(cascade$3 with sweep$3) and data and gather$3	USPAT; US-PGPUB	2003/04/18 16:37
12	11	(cascade$3 with sweep$3) and data and segment	USPAT; US-PGPUB	2003/04/18 16:37
14	2	(cascade$3 with sweep$3) and data and segment and seismic and window$3	USPAT; US-PGPUB	2003/04/18 16:38
13	4	(cascade$3 with sweep$3) and data and segment and seismic	USPAT; US-PGPUB	2003/04/18 16:41
11	28	(cascade$3 with sweep$3) and data	USPAT; US-PGPUB	2003/04/18 16:47
15	5	(cascade$3 with sweep$3) and data and seismic	USPAT; US-PGPUB	2003/04/18 16:49
17	16	(cascade$3 and sweep$3) and data and seismic and window$3	USPAT; US-PGPUB	2003/04/18 16:50
18	16	(cascade$3 and sweep$3) and data and seismic and window$3 and first and second	USPAT; US-PGPUB	2003/04/18 16:50
20	12	(cascade$3 and sweep$3) and data and seismic and window$3 and first and second and segment$3	USPAT; US-PGPUB	2003/04/18 16:56
21	2	(cascade$3 with sweep$3) and data and seismic and window$3 and first and second and segment$3	USPAT; US-PGPUB	2003/04/18 16:58
22	11	(cascade$3 and sweep$3) and data and seismic and window$3 and first and second and segment$3 and compar$3	USPAT; US-PGPUB	2003/04/18 16:59
23	11	(cascade$3 and sweep$3) and data and seismic and window$3 and first and second and segment$3 and compar$3 and segment$3	USPAT; US-PGPUB	2003/04/18 17:04
24	1	(cascade$3 with sweep$3) and data and seismic and window$3 and first and second and segment$3 and compar$3 and segment$3	USPAT; US-PGPUB	2003/04/18 17:07
16	40	(cascade$3 and sweep$3) and data and seismic	USPAT; US-PGPUB	2003/04/18 17:08

L Number	Hits	Search Text	DB	Time stamp
2	3	window$3 with (data and segment) and seismic and sweep$3 and (chirp or variphase or vibrator$3)	USPAT; US-PGPUB	2003/04/18 16:19
1	8	window$3 with (data and segment) and seismic and (sweep$3 or chirp or variphase or vibrator$3)	USPAT; US-PGPUB	2003/04/18 16:18
3	27	window$3 and (data and segment) and seismic and sweep$3 and (chirp or variphase or vibrator$3)	USPAT; US-PGPUB	2003/04/18 16:21
4	27	window$3 and (data and segment) and seismic and sweep$3 and (chirp or variphase or vibrator$3) and first and second	USPAT; US-PGPUB	2003/04/18 16:22
5 ·	83	window$3 and (data and segment) and seismic and (sweep$3 or chirp or variphase or vibrator$3) and first and second	USPAT; US-PGPUB	2003/04/18 16:23
6	0	(window$3 and (data and segment) and seismic and (sweep$3 or chirp or variphase or vibrator$3) and first and second) and variphase and gather$3	USPAT; US-PGPUB	2003/04/18 16:34
7	0	(variphase with gather$3) and seismic and sweep$3 and window$3 and stack$3	USPAT; US-PGPUB	2003/04/18 16:35
8	0	variphase with gather$3	USPAT; US-PGPUB	2003/04/18 16:35
9	0	variphase and gather$3	USPAT; US-PGPUB	2003/04/18 16:36
10	0	(cascade$3 with sweep$3) and data and gather$3	USPAT; US-PGPUB	2003/04/18 16:37
12	11	(cascade$3 with sweep$3) and data and segment	USPAT; US-PGPUB	2003/04/18 16:37
14	2	(cascade$3 with sweep$3) and data and segment and seismic and window$3	USPAT; US-PGPUB	2003/04/18 16:38
13	4	(cascade$3 with sweep$3) and data and segment and seismic	USPAT; US-PGPUB	2003/04/18 16:41
11	28	(cascade$3 with sweep$3) and data	USPAT; US-PGPUB	2003/04/18 16:47
15	5	(cascade$3 with sweep$3) and data and seismic	USPAT; US-PGPUB	2003/04/18 16:49
17	16	(cascade$3 and sweep$3) and data and seismic and window$3	USPAT; US-PGPUB	2003/04/18 16:50
18	16	(cascade$3 and sweep$3) and data and seismic and window$3 and first and second	USPAT; US-PGPUB	2003/04/18 16:50
20	12	(cascade$3 and sweep$3) and data and seismic and window$3 and first and second and segment$3	USPAT; US-PGPUB	2003/04/18 16:56
21	2	(cascade$3 with sweep$3) and data and seismic and window$3 and first and second and segment$3	USPAT; US-PGPUB	2003/04/18 16:58
22	11	(cascade$3 and sweep$3) and data and seismic and window$3 and first and second and segment$3 and compar$3	USPAT; US-PGPUB	2003/04/18 16:59
23	11	(cascade$3 and sweep$3) and data and seismic and window$3 and first and second and segment$3 and compar$3 and segment$3	USPAT; US-PGPUB	2003/04/18 17:04
24	1	(cascade$3 with sweep$3) and data and seismic and window$3 and first and second and segment$3 and compar$3 and segment$3	USPAT; US-PGPUB	2003/04/18 17:07
16	40	(cascade$3 and sweep$3) and data and seismic	USPAT; US-PGPUB	2003/04/18 17:08

	U	1	Document ID	Issue Date	Pages	Title	Current OR
1	☐	☐	US 6418079 B1	20020709	10	Method of reducing harmonic interference while using overlapping source point seismic recording techniques	367/40
2	☐	☐	US 5410517 A	19950425	17	Method for cascading sweeps for a seismic vibrator	367/75

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
1	367/41; 367/43		Fleure, Thomas John	☒	☐	☐	☐	☐	☐	☐
2	181/108; 181/113; 367/190; 367/38; 367/40; 367/41		Andersen, Kenneth D.	☒	☐	☐	☐	☐	☐	☐

	Image Doc. Displayed	PT
1	US 6418079	☐
2	US 5410517	☐

	U	1	Document ID	Issue Date	Pages	Title	Current OR
1	☐	☐	US 6418079 B1	20020709	10	Method of reducing harmonic interference while using overlapping source point seismic recording techniques	367/40
2	☐	☐	US 4597066 A	19860624	29	Method of seismic processing and displaying simultaneously collected conventional and converted P- or S-wave data	367/38
3	☐	☐	US 4596005 A	19860617	27	Method of seismic collection utilizing multicomponent processing receivers and processing resultant conventional and converted P- or S-wave data	367/38

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
1	367/41; 367/43		Fleure, Thomas John	☒	☐	☐	☐	☐	☐	☐
2	367/50; 367/74; 702/14		Frasier, Clint W.	☒	☐	☐	☐	☐	☐	☐
3	367/74; 702/14		Frasier, Clint W.	☒	☐	☐	☐	☐	☐	☐

	Image Doc. Displayed	PT
1	US 6418079	☐
2	US 4597066	☐
3	US 4596005	☐

	U	1	Document ID	Issue Date	Pages	Title	Current OR
1	☒	☐	US 6418079 B1	20020709	10	Method of reducing harmonic interference while using overlapping source point seismic recording techniques	367/40
2	☒	☐	US 5410517 A	19950425	17	Method for cascading sweeps for a seismic vibrator	367/75

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
1	367/41; 367/43		Fleure, Thomas John	☐	☐	☐	☐	☐	☐	☐
2	181/108; 181/113; 367/190; 367/38; 367/40; 367/41		Andersen, Kenneth D.	☐	☐	☐	☐	☐	☐	☐

	Image Doc. Displayed	PT
1	US 6418079	☐
2	US 5410517	☐

	U	1	Document ID	Issue Date	Pages	Title	Current OR
1	☐	☐	US 20020091487 A1	20020711	23	Method of using cascaded sweeps for source coding and harmonic cancellation	702/2
2	☐	☐	US 6418079 B1	20020709	10	Method of reducing harmonic interference while using overlapping source point seismic recording techniques	367/40
3	☐	☐	US 5410517 A	19950425	17	Method for cascading sweeps for a seismic vibrator	367/75
4	☐	☐	US 4095425 A	19780620	13	Control system for rotary air modulator	60/484

	Current XRef	Retrieval Classif	Inventor	S	C	P	2	3	4	5
1			Moerig, Rainer et al.	☒	☐	☐	☐	☐	☐	☐
2	367/41; 367/43		Fleure, Thomas John	☒	☐	☐	☐	☐	☐	☐
3	181/108; 181/113; 367/190; 367/38; 367/40; 367/41		Andersen, Kenneth D.	☒	☐	☐	☐	☐	☐	☐
4	181/118; 181/119; 181/401; 367/190; 60/702; 60/911		Brown, Graydon L. et al.	☒	☐	☐	☐	☐	☐	☐

	Image Doc. Displayed	PT
1	US 20020091487	☐
2	US 6418079	☐
3	US 5410517	☐
4	US 4095425	☐